

ILLEGIB

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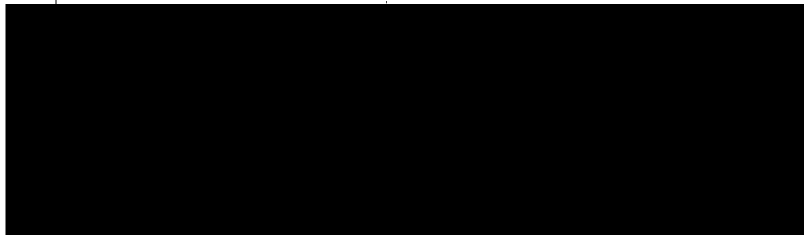
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DECLASS REVIEW by NIMA/DOD

TCS #2639/65
PID/ABCB 89/65
23 April 1965
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MEMORANDUM FOR: Chief, Nuclear Energy Division, OSI
ATTENTION: [REDACTED], SNB/NEO/OSI
THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS
FROM: Chief, Photographic Intelligence Division, CIA
SUBJECT: Measurement of Ice-Free Areas at the Tomsk Atomic Energy Complex, USSR
REFERENCES: Requirement No. C-SI5-82,16/
CIA Project No. 30209-5

1. Areas of melted ice on the Tom River resulting from discharge points at the Tomsk AE Complex were measured by the NPIC Technical Intelligence Division as follows:



The above tabulation is a total acreage figure for each mission, and includes separate ice-free areas and the intervening re-frozen areas.

2. Preliminary measurements by the photo analyst (PID/ABCB Memo 45/65, dated 23 Feb 65) compared favorably, especially the total ice-free areas. The NPIC/TID measurements of the ice-free areas ranged between 7 to 9% lower except for [REDACTED] which were about 15% lower. The frozen areas on [REDACTED] also compared well; larger differences on the other missions are in part due to the difficulty in interpreting the

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boundary of a refrozen channel. As a result the photogrammetrist measured a narrower section on [REDACTED]. A larger frozen area was included on [REDACTED] than that used by the photo analyst.

3. NPIC/TID measurements were also obtained for the pre-cooler section, the holding area prior to discharge into the Tom River. These measurements are considered approximate due to the vapor clouds that partially cover the area. The measurements as received are as follows:

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Area

Trench Canal
Reservoir Lake
Stream Outlet

NOTE: All measurements given are in acres.
* Considered unreliable by photo analyst.

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The best clear coverage of the above was on [REDACTED]. The acreage of the reservoir lake for this mission is about 20% lower than the preliminary measurement made by the project analyst.

4. All measurements in this final memorandum have been made by the NPIC Technical Intelligence Division, and are considered accurate within $\pm 5\%$ for the Tom River ice-free section and $\pm 10\%$ for the Tom River refrozen section. No accuracy statement was given for the pre-cooler section due to the partial cloud cover.

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5. The photo analyst on this project was [REDACTED] who may be contacted on extension 2317 should you have further questions.

6. This memorandum and the previous partial response as referenced completes the project.

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